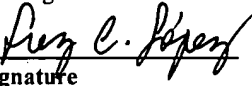


16523 U.S. PTO  
102903

**CERTIFICATION UNDER 37 C.F.R. AND 1.10**

I hereby certify that, on the date shown below, this correspondence is being deposited with the United States Postal Service in an envelope addressed to: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 as "Express Mail Post Office to Address" Mailing Label No. EV166756963US on October 29, 2003.

  
Signature

LUZ C. LOPEZ  
(type or print name of person certifying)

PATENT  
Docket No.: 57188/02-774  
Page 1 of 8

17497 U.S. PTO  
10/696544  
102903

**Preliminary Classification:**

Proposed Class:

Subclass:

NOTE: "All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand corner of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129.'" M.P.E.P. Section 601, 7th ed.

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**NEW APPLICATION TRANSMITTAL**

Transmitted herewith for filing is the patent application of

Inventor(s): Anthony W. CONFER  
Sahlu AYALEW  
George L. MURPHY  
Karamjeet PANDHER

For (title): *M. Haemolytica* outer membrane protein P1pE as a vaccine or vaccine component against shipping fever

**1. Type of Application**

This new application is for a(n)

- ☒ Original (nonprovisional)
- ☐ Design
- ☐ Plant
- ☐ Divisional.
- ☐ Continuation.
- ☐ Continuation-in-part (C-I-P).

**2. Benefit of Prior U.S. Application(s) (35 U.S.C. Sections 119(e), 120, or 121)**

- ☒ The new application being transmitted claims the benefit of prior U.S. application(s). This application corresponds to provisional application Serial No. 60/422,305, filed 10/30/2002.

**3. Papers Enclosed**

**A. Required for Filing Date under 37 C.F.R. Section 1.53(b) (Regular) or 37 C.F.R. Section 1.153 (Design) Application**

30 Pages of Specification  
2 Pages of Claims  
1 Pages of Abstract  
6 Sheets of Drawing [Formal]

- ☐ The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. Section 1.84(b).

- ☐ Formal
- ☐ Informal

**B. Other Papers Enclosed**

       Pages of declaration and power of attorney  
       Pages of assignment  
       Nonpublication Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i)  
4 Initial Application Data Sheet  
       None  
       Other

**4. Additional Papers Enclosed**

- ☐ Amendment to claims
  - ☐ Cancel in this applications claims \_\_\_\_\_ before calculating the filing fee.  
(At least one original independent claim must be retained for filing purposes.)
  - ☐ Add the claims shown on the attached amendment. (Claims added have been numbered consecutively following the highest numbered original claims.)
- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement (37 C.F.R. Section 1.98)
- ☐ Form PTO-1449 (PTO/SB/08A and 08B)
- ☐ Citations
- ☐ Declaration of Biological Deposit
- ☒ Submission of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for biotechnology invention containing nucleotide and/or amino acid sequence.
  - ☒ Paper (6 pg)
  - ☒ One (1) diskette .txt CRF.
- ☐ Authorization of Attorney(s) to Accept and Follow Instructions from Representative
- ☐ Special Comments
- ☐ Other

**5. Declaration or Oath (including power of attorney)**

- ☐ Enclosed Executed by
  - ☐ inventor(s).
  - ☐ legal representative of inventor(s). 37 C.F.R. Section 1.42 or 1.43.
  - ☐ joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.
    - ☐ This is the petition required by 37 C.F.R. Section 1.47 and the statement required by 37 C.F.R. Section 1.47 is also attached. See item 13 below for fee.
- ☒ Not Enclosed.
  - ☐ Application is made by a person authorized under 37 C.F.R. 1.41 on behalf of *all* the above named inventor(s).
  - ☐ Showing that the filing is authorized.

**6. Inventorship Statement**

The inventorship for all the claims in this application are:

☒ The same.

or

☐ Not the same. An explanation, including the ownership of the various claims at the time the last claimed invention was made,  
☐ is submitted.  
☐ will be submitted.

**7. Language**

☒ English  
☐ Non-English

☐ The attached translation includes a statement that the translation is accurate. 37 C.F.R. Section 1.52(d).

**8. Assignment**

☒ An assignment of the invention to

☐ is attached. A separate  
☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT)  
ACCOMPANYING NEW PATENT APPLICATION" or  
☐ FORM PTO 1595 is also attached.

☒ will follow.

☐ Assignment previously recorded on \_\_\_\_\_ at Reel \_\_\_\_ / Frame \_\_\_\_.

**9. Certified Copy**

Certified copy(ies) of application(s)

Country:

Application No.:

Filed:

from which priority is claimed

☐ is (are) attached.  
☐ will follow.

**10. Fee Calculation (37 C.F.R. Section 1.16)**

A. ☒ Regular application

**CLAIMS AS FILED**

Claims	Number Filed	Basic Fee Allowance	Number Extra	Rate	Basic Fee 37 C.F.R. Section 1.16(a) \$770.00
Total Claims (37 C.F.R. Section 1.16(c))	8	- 20 =	0 x	\$ 18.00	.00
Independent Claims (37 C.F.R. Section 1.16(b))	1	- 3 =	0 x	\$ 86.00	0.00
Multiple Dependent Claim(s), if any (37 C.F.R. Section 1.16(d))			+	\$290.00	0.00

☐ Amendment cancelling extra claims is enclosed.  
☐ Amendment deleting multiple-dependencies is enclosed.  
☐ Fee for extra claims is not being paid at this time.

Filing Fee Calculation

\$770.00

- B. ☐ Design application  
(\$340.00--37 C.F.R. Section 1.16(f))  
Filing Fee Calculation \$
- C. ☐ Plant application  
(\$530.00--37 C.F.R. Section 1.16(g))  
Filing Fee Calculation \$

**11. Small Entity Statement(s)**

- ☒ Small entity statement is claimed at this time.
- ☐ Small entity statement is not claimed at this time.

Filing Fee Calculation (50% of A, B or C above) \$ 385.00

**12. Request for International-Type Search (37 C.F.R. Section 1.104(d))**

*(complete, if applicable)*

- ☐ Please prepare an international-type search report for this application at the time when national examination on the merits takes place.

**13. Fee Payment Being Made at This Time**

- ☒ Not Enclosed
- ☒ No filing fee is to be paid at this time.

- ☐ Enclosed

☐ Filing fee \$ \_\_\_\_\_

☐ Recording assignment  
(\$40.00; 37 C.F.R. Section 1.21(h))  
(See attached "COVER SHEET FOR  
ASSIGNMENT ACCOMPANYING NEW  
APPLICATION.") \$ \_\_\_\_\_

- ☐ Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached (\$130.00; 37 C.F.R. Sections 1.47 and 1.17(I)) \$ \_\_\_\_\_
- ☐ For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. Sections 1.52(d) and 1.17(k)) \$ \_\_\_\_\_
- ☐ Processing and retention fee (\$130.00; 37 C.F.R. Sections 1.53(d) and 1.21(l)) \$ \_\_\_\_\_
- ☐ Fee for international-type search report (\$40.00; 37 C.F.R. Section 1.21(e)) \$ \_\_\_\_\_
- Total Fees Enclosed \$ \_\_\_\_\_

**14. Method of Payment of Fees**

- ☐ Check in the amount of \$\_\_\_\_\_.
- ☐ Charge Account No. \_\_\_\_\_ in the amount of \$\_\_\_\_\_.
- ☐ A duplicate of this transmittal is attached.

**15. Authorization to Charge Additional Fees**

- ☐ The Commissioner is hereby authorized to charge the following additional fees by this paper and during the entire pendency of this application to Account No..
- ☐ 37 C.F.R. Section 1.16(a), (f) or (g) (filing fees)
- ☐ 37 C.F.R. Section 1.16(b), (c) and (d) (presentation of extra claims)
- ☐ 37 C.F.R. Section 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
- ☐ 37 C.F.R. Section 1.17(a)(1)-(5) (extension fees pursuant to Section 1.136(a).
- ☐ 37 C.F.R. Section 1.17 (application processing fees)
- ☐ 37 C.F.R. Section 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. Section 1.311(b))

**16. Instructions as to Overpayment**

☐ Credit Account No. \_\_\_\_\_  
☐ Refund

**17. Correspondence Address**

Customer No. 22206

Respectfully submitted,

10-29-03  
DATE

Reg. No.: 41,143

Tel. No.: (918) 599-0621

Customer No.: 22206

  
SIGNATURE OF PRACTITIONER

James F. Lea III  
(type or print name of practitioner)

321 S. Boston Ave., Suite 800  
P.O. Address

Tulsa, OK 74103-3318